CLAIMS LISTING

- 1.-76. (canceled)
- 77. (original) A method for aspirating fluid from an ocular region during a phacoemulsification procedure, comprising:

aspirating the ocular region by applying a series of modulated differential pressure pulses to the ocular region via a fluid control device.

- 78. (original) The method of claim 77, wherein aspirating comprises delivering a series of pulses having a negative pressure differential from ambient for duration less than 100 milliseconds.
- 79. (original) The method of claim 78, wherein said negative pressure differential pulses are interspersed by brief de minimis pressure differential pulse periods.
- 80. (original) The method of claim 77, wherein negative pressure differential pulses are delivered using a phacoemulsification handpiece.
- 81. (original) The method of claim 77, further comprising delivering modulated ultrasonic energy to the ocular region simultaneous with said aspirating.
- 82. (original) The method of claim 81, wherein timing of modulated ultrasonic energy delivery corresponds to timing of the series of modulated pressure differential pulses.
- 83. (original) The method of claim 81, wherein timing of modulated ultrasonic energy delivery differs from timing of the series of modulated pressure differential pulses.
- 84. (original) The method of claim 81, wherein application of modulated ultrasonic energy delivery tends to induce transient cavitation in the ocular region.

- 85. (original) The method of claim 77, wherein each pressure differential pulse is at most approximately 25 milliseconds.
- 86. (original) The method of claim 77, wherein each pressure differential pulse is at most approximately eight milliseconds.
 - 87-108. (canceled)
 - 109. (new) A method for aspirating fluid from an ocular region, comprising:

applying a series of modulated differential pressure pulses to the ocular region via a fluid control device.

- 110. (new) The method of claim 109, wherein applying comprises delivering a series of pulses having a negative pressure differential from ambient for duration less than 100 milliseconds.
- 111. (new) The method of claim 110, wherein said negative pressure differential pulses are interspersed by brief de minimis pressure differential pulse periods.
- 112. (new) The method of claim 109, wherein negative pressure differential pulses are delivered using a phacoemulsification handpiece.
- 113. (new) The method of claim 109, further comprising delivering modulated ultrasonic energy to the ocular region simultaneous with said applying.
- 114. (new) The method of claim 113, wherein timing of modulated ultrasonic energy delivery corresponds to timing of the series of modulated pressure differential pulses.
- 115. (new) The method of claim 113, wherein timing of modulated ultrasonic energy delivery differs from timing of the series of modulated pressure differential pulses.

- 116. (new) The method of claim 113, wherein application of modulated ultrasonic energy delivery tends to induce transient cavitation in the ocular region.
- 117. (new) The method of claim 109, wherein each pressure differential pulse is at most approximately 25 milliseconds.
- 118. (new) The method of claim 109, wherein each pressure differential pulse is at most approximately eight milliseconds.
- 119. (new) A method for aspirating fluid from an ocular region, comprising: applying modulated differential pressure pulses to the ocular region; and delivering modulated ultrasonic energy to the ocular region simultaneous with said applying.
- 120. (new) The method of claim 119, wherein applying comprises delivering a series of pulses having a negative pressure differential from ambient for duration less than 100 milliseconds.
- 121. (new) The method of claim 120, wherein said negative pressure differential pulses are interspersed by brief de minimis pressure differential pulse periods.
- 122. (new) The method of claim 119, wherein negative pressure differential pulses are delivered using a phacoemulsification handpiece.
- 123. (new) The method of claim 119, wherein timing of modulated ultrasonic energy delivery corresponds to timing of the series of modulated pressure differential pulses.
- 124. (new) The method of claim 119, wherein timing of modulated ultrasonic energy delivery differs from timing of the series of modulated pressure differential pulses.

- 125. (new) The method of claim 119, wherein application of modulated ultrasonic energy delivery tends to induce transient cavitation in the ocular region.
- 126. (new) The method of claim 119, wherein each pressure differential pulse is at most approximately 25 milliseconds.
- 127. (new) The method of claim 119, wherein each pressure differential pulse is at most approximately eight milliseconds.
 - 128. (new) A method for treating an ocular region, comprising:

applying modulated differential pressure pulses to the ocular region to aspirate the ocular region; and

delivering modulated ultrasonic energy to the ocular region simultaneous with said applying.

- 129. (new) The method of claim 128, wherein applying comprises delivering a series of pulses having a negative pressure differential from ambient pressure for a duration of less than 100 milliseconds.
- 130. (new) The method of claim 129, wherein said negative pressure differential pulses are interspersed by brief de minimis pressure differential pulse periods.
- 131. (new) The method of claim 129, wherein negative pressure differential pulses are delivered using a phacoemulsification handpiece.
- 132. (new) The method of claim 128, wherein timing of modulated ultrasonic energy delivery corresponds to timing of the series of modulated pressure differential pulses.
- 133. (new) The method of claim 128, wherein timing of modulated ultrasonic energy delivery differs from timing of the series of modulated pressure differential pulses.

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- 134. (new) The method of claim 128, wherein applying modulated ultrasonic energy delivery tends to induce transient cavitation in the ocular region.
- 135. (new) The method of claim 128, wherein each pressure differential pulse is at most approximately 25 milliseconds.
- 136. (new) The method of claim 128, wherein each pressure differential pulse is at most approximately eight milliseconds.
- 137. (new) A method for aspirating fluid during a phacoemulsification procedure, comprising:

applying a series of modulated differential pressure pulses to an ocular region during the phacoemulsification procedure.

- 138. (new) The method of claim 137, wherein said applying occurs using a fluid control device.
- 139. (new) The method of claim 137, wherein applying comprises delivering a series of pulses having a negative pressure differential from ambient.
- 140. (new) The method of claim 139, wherein delivering the series of pulses having the negative pressure differential for a series of durations of less than 100 milliseconds.
- 141. (new) The method of claim 140, wherein said negative pressure differential pulses are interspersed by brief de minimis pressure differential pulse periods.
- 142. (new) The method of claim 138, wherein negative pressure differential pulses are delivered using a phacoemulsification handpiece.
- 143. (new) The method of claim 137, further comprising delivering modulated ultrasonic energy to the ocular region simultaneous with said aspirating.

- 144. (new) The method of claim 143, wherein timing of modulated ultrasonic energy delivery corresponds to timing of the series of modulated pressure differential pulses.
- 145. (new) The method of claim 143, wherein timing of modulated ultrasonic energy delivery differs from timing of the series of modulated pressure differential pulses.
- 146. (new) The method of claim 143, wherein application of modulated ultrasonic energy delivery tends to induce transient cavitation in the ocular region.
- 147. (new) The method of claim 139, wherein each pressure differential pulse is at most approximately 25 milliseconds.
- 148. (new) The method of claim 139, wherein each pressure differential pulse is at most approximately eight milliseconds.